

SYSTEM AND METHOD FOR SELECTING DATA RATES TO PROVIDE
UNIFORM BIT LOADING OF SUBCARRIERS OF A MULTICARRIER
COMMUNICATION CHANNEL

Abstract of the Disclosure

A data rate is selected for subcarriers of each frequency and spatial channel of a slowly varying frequency selective multicarrier channel to provide uniform bit loading (UBL) for faster link adaptation. Signal to noise ratios (SNRs) for subcarriers of the multicarrier communication channel may be calculated from channel state information and a transmit power level. A throughput may be estimated for the data rates from the SNRs and one of the data rates may be selected based on the estimated throughputs.

"Express Mail" mailing label number: EV415949265US

Date of Deposit: March 30, 2004

This paper or fee is being deposited on the date indicated above with the United States Postal Service pursuant to 37 CFR 1.10, and is addressed to the Commissioner for Patents, Mail Stop Patent Application, P.O. Box 1450, Alexandria, VA 22313-1450.